

Title (en)
Screw compressor

Title (de)
Schraubenverdichter

Title (fr)
Compresseur à vis

Publication
EP 0775826 A1 19970528 (EN)

Application
EP 96118383 A 19961115

Priority
DE 19543691 A 19951123

Abstract (en)
The helical compressor has a compressor housing with an inlet (50) and an outlet for the medium which is to be compressed. It has two helical elements which are arranged in a chamber in the housing, and which extend between the inlet and the outlet. The elements engage in one another, in order to form closed compression spaces. Openings (70) for controlling performance are arranged in a chamber wall region which bounds compression spaces which are closed at maximum performance. Each opening is arranged at a place which corresponds to a different compression ratio, and one of several control elements can either fill in the opening in order to close it, or can stand at a distance from the opening, in order to connect it to a channel (72) which is joined to the inlet.

IPC 1-7
F04C 18/16; **F04C 29/10**

IPC 8 full level
F04C 18/16 (2006.01); **F04C 28/16** (2006.01)

CPC (source: EP)
F04C 18/16 (2013.01); **F04C 28/16** (2013.01)

Citation (applicant)
VDI BERICHTE, no. 1135, 1994

Citation (search report)

- [Y] US 3151806 A 19641006 - WHITFIELD JOSEPH E
- [Y] EP 0350426 A2 19900110 - CARRIER CORP [US]
- [A] US 5127386 A 19920707 - SOWARDS BRIAN D [US]
- [Y] PATENT ABSTRACTS OF JAPAN vol. 8, no. 262 (M - 341)<1699> 30 November 1984 (1984-11-30) & JP S59131791 A 19840728 - TOYODA AUTOMATIC LOOM WORKS

Cited by
US7726285B1; CN115003914A; US12012961B2; EP3557062A1; CN110388319A; US10895259B2; WO2022161857A1; WO2021148475A1

Designated contracting state (EPC)
BE DE ES FR GB IT SE

DOCDB simple family (publication)
EP 0775826 A1 19970528; DE 19543691 A1 19970528

DOCDB simple family (application)
EP 96118383 A 19961115; DE 19543691 A 19951123